

LIST OF PATENTS AND PUBLICATIONS
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DISCLOSURE STATEMENT
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1993
79

Applicant: Richard H. Tullis

Filing Date
June 16, 1993Group:
1805

Reference Designation

U.S. PATENT DOCUMENTS

Examiner	Initial	Document No.	Date	Name	Class	Subcl:	File Date	If Approp
	AA	4,399,216	8/16/83	Axel et al.	435	6	02/25/1980	
	AB	4,469,863	9/4/84	Ts'eo et al.				
	AC	5,023,243	6/11/91	Tullis				

FOREIGN PATENT DOCUMENTS

Document No.	Date	Country	Class	Subcl:	Trans.	Yes	No
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

A1 Miller, Paul S., et al., "Effects of a Trinucleotide Ethyl Phosphotriester, G^mp(Et)G^mp(Et)U, on Mammalian Cells in Culture," Biochemistry Vol. 16, No. 9, 1988-1996 (1977).

A2 Miller, Paul S., et al., "Biochemical and Biological Effects of Nonionic Nucleic Acid Methylphosphonates," Biochemistry Vol. 20, No. 7, 1874-1880 (1981).

A3 Jayaraman, Krishna, et al., "Selective inhibition of *Escherichia coli* protein synthesis and growth by nonionic oligonucleotides complementary to the 3' end of 16S rRNA," Proc. Natl. Acad. Sci. USA Vol. 78, No. 3, 1537-1541 (1981).

A4 Paterson, Bruce M., et al., "Structural gene identification and mapping by DNA-mRNA hybrid-arrested cell-free translation," Proc. Natl. Acad. Sci. USA Vol. 74, No. 10, 4370-4374, (1977).

A5 Hastic, Nicholas D., et al., "Analysis of mRNA populations by cDNA-mRNA hybrid-mediated inhibition of cell-free protein synthesis," Proc. Natl. Acad. Sci. USA Vol. 75, No. 3, 1217-1221, (1978).

EXAMINER

DATE CONSIDERED

2/16/94

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Attorney Docket No.
16243-1-5Serial No.
08/078,767,768

Applicant: Richard H. Tullis

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Wallace, R. Bruce, et al., "Hybridization of synthetic oligodeoxyribonucleotides to Φ x 174 DNA: the effect of single base pair mismatch," Nucleic Acids Research Vol. 6, No. 11, 3543-3557, (1979).

A7 Zamecnik, Paul C., et al., "Inhibition of Rous sarcoma virus replication and cell transformation by a specific oligodeoxynucleotide," Proc. Natl. Acad. Sci. USA, Vol. 75, No. 1, 280-284, (1978).

A8 Stephenson, Mary L., et al., "Inhibition of Rous sarcoma viral RNA translation by a specific oligodeoxyribonucleotide," Proc. Natl. Acad. Sci. USA, Vol 75, No. 1, 285-288, (1978).

A9 Miller, Paul S., "Synthesis of Oligodeoxyribonucleotide Ethyl Phosphotriesters and Their Specific Complex Formation with Transfer Ribonucleic Acid," Biochemistry, Vol 13, No. 24, 4887-4896, (1974).

A10 Barrett, J.C., "Inhibitory Effect of Complex Formation with Oligodeosyribonucleotide Ethyl Phosphotriesters on Transfer Ribonucleic Acid Aminoacylation," Biochemistry, Vol. 13, No. 24, 4897-4906, (1974).

A11 E. De Clerq, et al., "Interferon Induction Increased through Chemical Modification of a Synthetic Polyribonucleotide," pp. 1137-1139 (1969).

A12 Szostak, J.W., et al., "Hybridization with Synthetic Oligonucleotides," Methods in Enzymology, Vol. 68, 419-428, (1979).

A13 Goodchild, John, "Conjugates of Oligonucleotides and Modified Oligonucleotides: A Review of Their synthesis and Properties," Vol. 1, No. 3, 165-187, (1990).

A14 Uhlmann, Eugen, et al., "Antisense Oligonucleotides: A New Therapeutic Principle," Chemical Reviews, Vol. 90, No. 4, 543-562, (1990).

EXAMINER

DATE CONSIDERED

2/16/84

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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1805

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)
 Tullis, Richard, et al., "Antisense Applications of Synthetic Nucleic Acids," Biotechnology International Pgs. 79-88 (1991).

A16 The Ribonucleic Acids, 2nd ed., edited by P.R. Stewart and D.L. Letham, pp 1-269 (1977) Springer-Verlag, N.Y.
 81-128, 233-237, 239-269

A17 Biochemistry, 2nd ed., Lehninger, A.L. "The Molecular Basis of Cell Structure and Function," pp 398-399 (1970) Worth Publishers, Inc.

A18 Cold Spring Harbor Symposia on Quantitative Biology, Vol XLII, "Chromatin", Salser, W. "Globin mRNA Sequences: Analysis of Base Pairing and Evolutionary Implications," pp 985-1002 (1978).

A19 Haeuptle, Marie-Therese, et al., "Translation arrest by oligodeoxynucleotides complementary to mRNA coding sequences yields polypeptides of predetermined length," Nucleic Acids Research Vol. 14, No. 3, 1427-1448, (1986).

A20 Britten, R.J., et al., "Analysis of Repeating DNA Sequences by Reassociation," Methods in Enzymology Vol. 29, 363-418, (1974).

A21 Shen, T.Y., "Nucleosides and Nucleotides as Potential Therapeutic Agents," Angew. Chem. Internat. Vol 9, 678-689, (1970).

A22 Blake, Kathleen R., et al., "Inhibition of Rabbit Globin mRNA Translation by Sequence-Specific Oligodeoxyribonucleotides," Biochemistry Vol. 24, No. 22, 6132-6138 (1985).

A23 Heinzell, Howard C., et al., "The Primary Sequence of Rabbit α -Globin mRNA," Cell Vol. 15, 43-54, (1978).

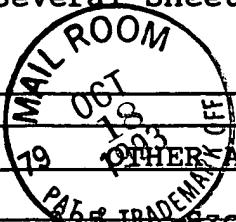
A24 Efstratiadis, Argiro, et al., "The Primary Structure of Rabbit β -Globin mRNA as Determined from Cloned DNA," Cell Vol. 10, 571-585, (1977).

EXAMINER

DATE CONSIDERED

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A25 TRADEMAKES Szostak, J.W., et al., "Hybridization with Synthetic Oligonucleotides," Methods in Enzymology Vol 68, 419-428, (1979).

A26 Gallo, Kathleen A., et al., "Alkyl phosphotriester modified oligodeoxyribonucleotides. V. Synthesis and absolute configuration of R_p and S_p diastereomers of an ethyl phosphotriester (E1) modified EcoRI recognition sequence d[GGAA(E1)TTCC]. A synthetic approach to regio-and stereospecific ethylation-interference studies," Nucleic Acids Research Vol. 14, No. 18, (1986). (1986).

A27 ✓ Befort, N., et al., "Inhibition of Viral Multiplication by Homologous Methylated Ribonucleic Acids", Chem. Biol. Interactions Vol. 9, 181-185, (1984).

A28 Summerton, James, "Intracellular Inactivation of Specific Nucleotide Sequences: A General Approach to the Treatment of Viral Diseases and Virally-mediated Cancers," J. theor. Biol. Vol. 78, 77-99, (1979).

A29 Marcel Florkin 1-36 Comprehensive Biochemistry, Vol. 19B, Part I, edited by Marcel Florkin, pp. 1-36 (1980). Elsevier Scientific Publishing Company, N.Y. 1-36

A30 Mevarech, Moshe, et al., "Detection of Gastrin-specific mRNA Using Oligodeoxynucleotide Probes of Defined Sequence," The Journal of Biological Chemistry Vol. ___, No. 16, 7472-7475, (1979).

A31 Gubler, Ueli, et al., "Detection and partial characterization of proenkephalin mRNA," Proc. Natl. Acad. Sci. USA Vol. 78, No. 9, 5484-5487, (1981).

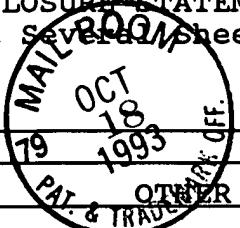
A32 Agarwala, Ken L., et al., "A General Method for Detection and Characterization of an mRNA using an Oligonucleotide Probe," J. Biol. Chem Vol. 256, 1023-1028 (1981).

EXAMINER

DATE CONSIDERED

4/16/94

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June 16, 1993Group:
1805

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

A33

Summerton, James, et al., "Sequence-specific Crosslinking Agents for Nucleic Acids. Use of 6-Bromo-5,5-dimethoxyhexanohydrazide for Crosslinking Cytidine to Guanosine and Crosslinking RNA to Complementary Sequences of DNA", J. Mol. Biol. Vo. 122, 145-162, (1978).

A34

Blake, Kathleen R., et al., Biochemistry, Vol. 24, 6139-6145 (1985).

A35

Pless, Reynaldo C., et al., "Duplex Formation of a Nonionic Oligo(deoxythymidylate) Analogue [Hepta(deoxythymidylyl-(3'-5')-deoxythymidine Heptaethyl Ester (d[Tp(Et)]-T)] with Poly(deoxyadenylate). Evaluation of the Electrostatic Interaction," Biochemistry, Vol. 16, No. 6, 1239-1250 (1977).

A36

Griveva, N.I., et al., "Alkylating Derivatives of Nucleic Acid Components.....," Translated from Izvestiya Sibirs'kogo Otdeleniya Akademii Nauk SSSR Seriya Khimicheskikh Nauk

A37

Karpova, G. G., et al., "Selective Alkylation of Poly (A) Tracts of RNA Inside the Cell with the Derivative of Ethyl Ester of Oligothymidilate Bearing -2-Chloroethylmamino Group," FEBS Letters Vol. 122, No. 1, 21-24, (1980).

A38

Liebhaber, Stephen A., et al., "Inhibition of mRNA Translation by Antisense Sequences," Gene Regulation: Biology of Antisense RNA and DNA (1992). pp. 163-174.

A39

Pluskal, M.G., et al., "Isolation of an Oligonucleotide, a Potent Inhibitor of Eukaryotic and Viral Messenger Ribonucleic Acid Translaion, from Chick Embryonic Muscle," Biochem. Soc. Trans., Vol. 7, No. 5, 1091-1093 (1979).

A40

Stebbing, N., "The Design of Antiviral Agents," Pharm. Ther., Vol. 6, 291-332 (1979). 291-321, 324, and 325 (1979).

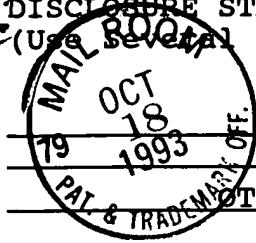
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2/16/84

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Filing Date
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1805

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

A41 Itakura, K., et al., "Chemical DNA Synthesis and Recombinant DNA Studies," Science, Vol. 209, 1401-1405 (1980).

A42 Koeffler, H.P., et al., "Regional assignment of genes for human α -globin and phosphoglycollate phosphatase to the short arm of chromosome 16," Proc. Natl. Acad. Sci. USA, Vol. 78, No. 11 7015-7018 (1981).

A43 Shulman, et al., "A better cell line for making hybridomas secreting specific antibodies," Nature, Vol 276, 269-270 (1978).

A44 Steglich, C., et al., "Mutations Causing Deficiency of APRT in Fibroblasts Cultured from Human Heterozygous for Mutant APRT Alleles," Somatic Cell Genetics, Vol 8, No 1, 115-141 (1982).

A45 Monoclonal Hybridoma Antibodies: Techniques and Applications, Edited by Hurrell, J.G.R., Ph.D., pp 16-17, (1982) CRC Press, Inc.

A46 Blann, D., "Cell hybrids: an important new source of antibody production," Journal Laboratory Sciences, Vol. 36, 329-338 (1979).

A47 Tennant, R.W., et al., "Effects of Poly(2'-O-Methyladenylic Acid) on Susceptibility and Antogenous Immunity to RNA Tumor Virus Oncogenesis In Vivo," Proc. Nat. Acad. Sci. USA, Vol. 71, No. 8, 3167-3171 (1974).

A48 Arya, S.K., et al., "Inhibition of RNA Directed DNA Polymerase of Murine Leukemia Virus by 2'-O-Alkylated Polyadenylic Acids," Biochemical and Biophysical Research Communications, Vol 59, No. 2. 608-615 (1974).

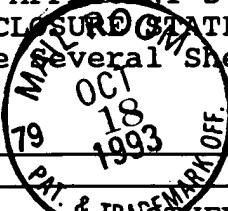
A49 Modern Genetics, 2nd Edition, Ayala, F.J. et al., "Renaturation Kinetics of DNA," pp 263-267, 1984 The Benjamin/Cummings Publishing Company, Inc.

EXAMINER

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A50 Miyoshi, K., et al., "Solid Phase Synthesis of Nonadecathymidyllic Acid by the Phosphotriester Approach," Tetrahedron Letters, No. 38, 3635-3638 (1979).

A51 Analogues of Viral Genomes, Pitha, P.M., pp 349-359.

EXAMINER

DATE CONSIDERED

2/16/94

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.